

## **Case report of application gene construction with VEGF and BMP2 in restoration of tear in the anterior cruciate ligament of a large breed dog**

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### **Abstract**

Here we present case report of restoration of tear in the anterior cruciate ligament of a dog (Labrador) using gene therapy. We injected plasmid DNA pBud-clVEGF-clBMP2 simultaneously expressing combination of two therapeutic canine proteins - VEGF (isoform 164) and BMP2. Effect of treatment was assessed using clinical observation and X-ray.

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### **Keywords**

Bone morphogenetic protein 2, Dog, Gene therapy, Tears in the anterior cruciate ligament, Vascular endothelial growth factor